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(FILE 'HOME' ENTERED AT 14:15:26 ON 03 MAR 2004)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH' ENTERED AT 14:15:46 ON 03 MAR 2004

L1 15426 S MEASLES(W)VIRUS
L2 877148 S HETEROLOGOUS(3A) (PROTEIN OR POLYPEPTIDE) OR MARKER
L3 323 S L1 AND L2
L4 7292131 S BIOLOGICAL(W)FLUID OR BLOOD OR SERUM OR SALIVA OR SPUTUM
L5 133 S L3 AND L4
L6 88 DUP REM L5 (45 DUPLICATES REMOVED)
L7 7280120 S (SECRET? OR DETECT?) (8A)BIOLOGICAL(W)FLUID OR BLOOD OR SERUM
L8 133 S L3 AND L7

=> d au ti so 50-88 16

L6 ANSWER 50 OF 88 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
AU DELPRETE G (Reprint); MAGGI E; PIZZOLO G; ROMAGNANI S
TI CD30, TH2 CYTOKINES AND HIV-INFECTION - A COMPLEX AND FASCINATING LINK
SO IMMUNOLOGY TODAY, (FEB 1995) Vol. 16, No. 2, pp. 76-80.
ISSN: 0167-4919.

L6 ANSWER 51 OF 88 MEDLINE on STN
AU Brown D W; Ramsay M E; Richards A F; Miller E
TI Salivary diagnosis of measles: a study of notified cases in the United
Kingdom, 1991-3.
SO BMJ (Clinical research ed.), (1994 Apr 16) 308 (6935) 1015-7.
Journal code: 8900488. ISSN: 0959-8138.

L6 ANSWER 52 OF 88 MEDLINE on STN
AU Mehta P D; Thormar H; Kulczycki J; Wisniewski H M
TI Immune response in subacute sclerosing panencephalitis.
SO Annals of the New York Academy of Sciences, (1994 Jun 6) 724 378-84. Ref:
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Journal code: 7506858. ISSN: 0077-8923.

L6 ANSWER 53 OF 88 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 14
AU Feldman, S. B.; Ferraro, M.; Zheng, H.-M.; Patel, N.; Gould-Fogerite, S.;
Fitzgerald-Bocarsly, P.
TI Viral induction of low frequency interferon- α producing cells
SO Virology (1994), 204(1), 1-7
CODEN: VIRLAX; ISSN: 0042-6822

L6 ANSWER 54 OF 88 MEDLINE on STN DUPLICATE 15
AU Rutter G; Hohenberg H
TI Label-fracture of plasma membranes isolated from **measles**
virus-infected cells.
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Journal code: 9815334. ISSN: 0022-1554.

L6 ANSWER 55 OF 88 MEDLINE on STN DUPLICATE 16
AU Nakayama T; Sonoda S; Urano T; Yamada T; Okada M
TI Monitoring both **serum** amyloid protein A and C-reactive protein
as inflammatory **markers** in infectious diseases.
SO Clinical chemistry, (1993 Feb) 39 (2) 293-7.
Journal code: 9421549. ISSN: 0009-9147.

L6 ANSWER 56 OF 88 MEDLINE on STN
AU Duca M; Apetrei C; Iancu L; Porumb S; Stamatin M; Pricop M; Stoica S
TI [The presence in pregnant women of the risk factor of **serum**
antibodies against 9 viruses with significance in materno-infantile
pathology and the transfer of these antibodies to the newborns].

- Prezenta la gravide cu factor de risc de anticorpi serici fata de noua virusuri cu semnificatie in patologia materno-infantila si transferul acestor anticorpi la nou-nascut.
- SO Revista medico-chirurgicala a Societatii de Medici si Naturalisti din Iasi, (1993 Apr-Jun) 97 (2) 247-51.
Journal code: 0413735. ISSN: 0300-8738.
- L6 ANSWER 57 OF 88 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AU Pacifici, Roberta [Reprint author]; Di Carlo, Simonetta; Bacosi, Antonella; Altieri, Ilaria; Pichini, Simona; Zuccaro, Piergiorgio
TI Modified procedure for labelling target cells in a europium release assay of natural killer cell activity.
SO Journal of Immunological Methods, (1993) Vol. 161, No. 1, pp. 135-137.
CODEN: JIMMBG. ISSN: 0022-1759.
- L6 ANSWER 58 OF 88 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AU Geretti, A. M. [Reprint author]; Van Els, C. A. C. M.; Van Baalen, C. A.; Poelen, M. C. M.; Osterhaus, A. D. M. E.
TI Preservation of phenotype and function of positively selected virus-specific CD8 positive T lymphocytes following anti-Fab detachment from immunomagnetic beads.
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- L6 ANSWER 59 OF 88 MEDLINE on STN
AU Moretti P; Branciaroli A; Di Battista S; Di Filippo A; Di Pietro M; Calafiore P; Di Battista C
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Valutazione clinica e risposta immunologica di un nuovo vaccino antimorbilloso.
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- L6 ANSWER 60 OF 88 MEDLINE on STN
AU Oda M; Hakamada R; Ono K; Higurashi M
TI A seroimmunological analysis of Down syndrome.
SO Gerontology, (1993) 39 Suppl 1 16-23.
Journal code: 7601655. ISSN: 0304-324X.
- L6 ANSWER 61 OF 88 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AU KRAUS E [Reprint author]; SCHNEIDER-SCHAULIES S; MIYASAKA M; TAMATANI T; SEDGWICK J
TI AUGMENTATION OF MAJOR HISTOCOMPATIBILITY COMPLEX CLASS I AND ICAM-1 EXPRESSION ON GLIAL CELLS FOLLOWING **MEASLES VIRUS** INFECTION EVIDENCE FOR THE ROLE OF TYPE-1 INTERFERON.
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- L6 ANSWER 62 OF 88 MEDLINE on STN DUPLICATE 17
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Interet du dosage de l'interferon alpha dans le diagnostic des meningo-encephalites presumees virales.
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- L6 ANSWER 63 OF 88 MEDLINE on STN
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TI [Quantitative and qualitative changes in the immunoglobulins of HIV-infected children].
Modifications quantitatives et qualitatives des immunoglobulines chez les

- SO enfants infectes par le HIV.
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Journal code: 9100120. ISSN: 1018-0532.
- L6 ANSWER 64 OF 88 MEDLINE on STN DUPLICATE 18
AU Ward B J; Johnson R T; Vaisberg A; Jauregui E; Griffin D E
TI Spontaneous proliferation of peripheral mononuclear cells in natural
measles virus infection: identification of dividing
cells and correlation with mitogen responsiveness.
SO Clinical immunology and immunopathology, (1990 May) 55 (2) 315-26.
Journal code: 0356637. ISSN: 0090-1229.
- L6 ANSWER 65 OF 88 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AU BUCURENCI N [Reprint author]; MUNTU V; CONSTANTINESCU S; MATEESCU M;
STEFANESCU M; PETCOVICI M; IONITA A; HEROLD A; SZEGLI G
TI ELISA WITH INFECTED VERO CELLS FOR THE ESTIMATION OF ANTI-MEASLES
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CODEN: RRBCAD. ISSN: 0001-4214.
- L6 ANSWER 66 OF 88 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AU NUMZAKI K [Reprint author]; GOLDMAN H; BAI X-Q; WONG I; WAINBERG M A
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- L6 ANSWER 67 OF 88 MEDLINE on STN DUPLICATE 19
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- L6 ANSWER 68 OF 88 MEDLINE on STN DUPLICATE 20
AU Salonen R; Ilonen J; Salmi A
TI **Measles virus** infection of unstimulated **blood**
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preferentially in monocytes.
SO Clinical and experimental immunology, (1988 Feb) 71 (2) 224-8.
Journal code: 0057202. ISSN: 0009-9104.
- L6 ANSWER 69 OF 88 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
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- L6 ANSWER 72 OF 88 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AU ROLA-PLESZCZYNSKI M [Reprint author]; LIEU H; SULLIVAN A K; GIRARD M
TI MEMBRANE **MARKERS** TARGET CELL SPECIFICITY AND SENSITIVITY TO
BIOLOGICAL RESPONSE MODIFIERS DISTINGUISH HUMAN NATURAL CYTOTOXIC FROM
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- L6 ANSWER 73 OF 88 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AU FLEISCHER B [Reprint author]; MARQUARDT P; POSER S; KRETH H W
TI PHENOTYPIC **MARKERS** AND FUNCTIONAL CHARACTERISTICS OF T
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CODEN: JNRIDW. ISSN: 0165-5728.
- L6 ANSWER 74 OF 88 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
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AU CREMER N E [Reprint author]; O'KEEFE B; HAGENS S J; DIGGS J
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SO Infection and Immunity, (1982) Vol. 38, No. 2, pp. 580-587.
CODEN: INFIBR. ISSN: 0019-9567.
- L6 ANSWER 76 OF 88 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
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TI ON THE HETEROGENEITY OF MURINE NATURAL KILLER CELLS.
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- L6 ANSWER 77 OF 88 MEDLINE on STN DUPLICATE 23
AU Rentier B; Wallen W C
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lymphocyte-mediated cytotoxicity on **measles virus**
-infected cells.
SO Infection and immunity, (1980 Oct) 30 (1) 303-15.
Journal code: 0246127. ISSN: 0019-9567.
- L6 ANSWER 78 OF 88 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AU BANKHURST A D [Reprint author]; MAKI D; MCLAREN L C
TI BINDING SITES FOR **MEASLES VIRUS** ANTIGENS ON HUMAN BONE
MARROW DERIVED AND THYMUS DERIVED LYMPHOCYTES.
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- L6 ANSWER 79 OF 88 MEDLINE on STN
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II. Altered patterns in subacute sclerosing panencephalitis.
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Journal code: 0150760. ISSN: 0014-3022.
- L6 ANSWER 80 OF 88 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

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 AND IMMUNO GLOBULIN M CLASS RHEUMATOID FACTOR IN **SERUM** AND
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 462-474.
 CODEN: CLIIAT. ISSN: 0090-1229.

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 AU LITYNSKA J [Reprint author]
 TI EFFECT OF IN-VITRO PASSAGES ON BIOLOGICAL PROPERTIES OF ATTENUATED STRAINS
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 ISSN: 0025-8601.

L6 ANSWER 82 OF 88 MEDLINE on STN DUPLICATE 24
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 SO Clinical and experimental immunology, (1979 Jan) 35 (1) 67-75.
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 TI OPTIC NEURITIS AND DISTRIBUTION OF GENETIC **MARKERS** OF THE HL-A
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 CODEN: ANRSAS. ISSN: 0001-6314.

L6 ANSWER 84 OF 88 MEDLINE on STN
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 TI Generation of virus-specific cytolytic activity in human peripheral
 lymphocytes after vaccination with vaccinia virus and **measles**
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 SO Medical microbiology and immunology, (1978 Nov 17) 166 (1-4) 71-9.
 Journal code: 0314524. ISSN: 0300-8584.

L6 ANSWER 85 OF 88 MEDLINE on STN
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 TI Cellular immunity to encephalitogenic protein in multiple sclerosis.
 Correlations with other laboratory characteristics at different disease
 courses.
 SO European neurology, (1977) 16 (1-6) 247-56.
 Journal code: 0150760. ISSN: 0014-3022.

L6 ANSWER 86 OF 88 MEDLINE on STN
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L6 ANSWER 87 OF 88 MEDLINE on STN
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 SO Proceedings of the Society for Experimental Biology and Medicine. Society
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 (4) 1344-9.
 Journal code: 7505892. ISSN: 0037-9727.

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Journal code: 7506868. ISSN: 0003-9012.

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AU Reimer, Peter [Reprint author]; Kunzmann, Volker [Reprint author];
Weissinger, Florian [Reprint author]; Wilhelm, Martin [Reprint author]
TI Immune reconstitution after high-dose chemotherapy (HDCT) followed by
autologous peripheral stem cell transplantation (PBSCT).
SO Blood, (November 16, 2000) Vol. 96, No. 11 Part 1, pp. 402a-403a. print.
Meeting Info.: 42nd Annual Meeting of the American Society of Hematology.
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CODEN: BLOOAW. ISSN: 0006-4971.

L6 ANSWER 31 OF 88 MEDLINE on STN DUPLICATE 8
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Sauer T; Konig A; Endres S P; Fricke H
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susceptibility in inflammatory bowel disease but apparently not linked to
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Journal code: 100883537. ISSN: 1521-6616.

L6 ANSWER 32 OF 88 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
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R E M; Melief C J M; Offringa R
TI Adenoviruses activate human dendritic cells without polarization toward a
T-helper type 1-inducing subset
SO JOURNAL OF VIROLOGY, (DEC 1999) Vol. 73, No. 12, pp. 10245-10253.
Publisher: AMER SOC MICROBIOLOGY, 1325 MASSACHUSETTS AVENUE, NW,
WASHINGTON, DC 20005-4171.
ISSN: 0022-538X.

L6 ANSWER 33 OF 88 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
AU Baron M D (Reprint); FosterCuevas M; Baron J; Barrett T
TI Expression in cattle of epitopes of a heterologous virus using a
recombinant rinderpest virus
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Publisher: SOC GENERAL MICROBIOLOGY, MARLBOROUGH HOUSE, BASINGSTOKE RD,
SPENCERS WOODS, READING RG7 1AE, BERKS, ENGLAND.
ISSN: 0022-1317.

L6 ANSWER 34 OF 88 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AU Nanche, Denise [Reprint author]; Reed, Steven I.; Oldstone, Michael B. A.
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SO Journal of Virology, (March, 1999) Vol. 73, No. 3, pp. 1894-1901. print.
CODEN: JOVIAM. ISSN: 0022-538X.

L6 ANSWER 35 OF 88 CAPLUS COPYRIGHT 2004 ACS on STN
IN Russell, Stephen James; Morling, Frances Joanne; Fielding, Adele Kay;
Cosset, Francois-Loic; Cattaneo, Roberto
TI Retroviral vectors for elimination of unwanted cells by cell-cell fusion
SO PCT Int. Appl., 44 pp.
CODEN: PIXXD2

L6 ANSWER 36 OF 88 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AU Chadwick, Nicholas; Bruce, Ian J.; Schepelmann, Silke; Pounder, Roy E.;
Wakefield, Andrew J. [Reprint author]

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 CODEN: JMVIDB. ISSN: 0146-6615.

L6 ANSWER 37 OF 88 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
 AU Hou L; Wilkerson M; Kapil S; Mosier D; Shuman W; Reddy J R; Loughin T;
 Minocha M C (Reprint)
 TI The effect of different bovine viral diarrhea virus genotypes and biotypes
 on the metabolic activity and activation status of bovine peripheral
blood mononuclear cells
 SO VIRAL IMMUNOLOGY, (MAY 1998) Vol. 11, No. 4, pp. 233-244.
 Publisher: MARY ANN LIEBERT INC PUBL, 2 MADISON AVENUE, LARCHMONT, NY
 10538.
 ISSN: 0882-8245.

L6 ANSWER 38 OF 88 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AU Chwae, Yong-Joon; Choi, In-Hong; Kim, Dong-Soo; Shin, Eui-Cheol; Kwon,
 Dae-Ho; Kim, Se-Jong; Kim, Joo-Deuk [Reprint author]
 TI Clonal expansion of T-cells in measles.
 SO Immunology Letters, (Oct., 1998) Vol. 63, No. 3, pp. 147-152. print.
 CODEN: IMLED6. ISSN: 0165-2478.

L6 ANSWER 39 OF 88 MEDLINE on STN
 AU Tumani H; Tourtellotte W W; Peter J B; Felgenhauer K
 TI Acute optic neuritis: combined immunological **markers** and
 magnetic resonance imaging predict subsequent development of multiple
 sclerosis. The Optic Neuritis Study Group.
 SO Journal of the neurological sciences, (1998 Feb 18) 155 (1) 44-9.
 Journal code: 0375403. ISSN: 0022-510X.

L6 ANSWER 40 OF 88 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AU Addae, Michael Mark; Komada, Yoshihiro [Reprint author]; Taniguchi,
 Kiyosu; Kamiya, Toshiya; Osei-Kwasi, Mubarak; Akanmori, Bartholomew Dicky;
 Nkrumah, Francis Kwame
 TI Surface **marker** patterns of T cells and expression of
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 SO Acta Paediatrica Japonica, (Feb., 1998) Vol. 40, No. 1, pp. 7-13. print.
 CODEN: APDJBE. ISSN: 0374-5600.

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 DUPLICATE 9
 AU Schnorr, Jens-Joerg [Reprint author]; Xanthakos, Stavra; Keikavoussi,
 Petra; Kaempgen, Eckhart; Ter Meulen, Volker; Schneider-Schaulies, Sibylle
 TI Induction of maturation of human **blood** dendritic cell precursors
 by **measles virus** is associated with immunosuppression.
 SO Proceedings of the National Academy of Sciences of the United States of
 America, (1997) Vol. 94, No. 10, pp. 5326-5331.
 CODEN: PNASA6. ISSN: 0027-8424.

L6 ANSWER 42 OF 88 MEDLINE on STN DUPLICATE 10
 AU Schnorr J J; Seufert M; Schlender J; Borst J; Johnston I C; ter Meulen V;
 Schneider-Schaulies S
 TI Cell cycle arrest rather than apoptosis is associated with **measles**
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 SO Journal of general virology, (1997 Dec) 78 (Pt 12) 3217-26.
 Journal code: 0077340. ISSN: 0022-1317.

L6 ANSWER 43 OF 88 MEDLINE on STN DUPLICATE 11
 AU Balzola F A; Castellino F; Colombatto P; Manzini P; Astegiano M; Verme G;
 Brunetto M R; Pera A; Bonino F
 TI IgM antibody against **measles virus** in patients with

inflammatory bowel disease: a **marker** of virus-related disease?
SO European journal of gastroenterology & hepatology, (1997 Jul) 9 (7) 661-3.
Journal code: 9000874. ISSN: 0954-691X.

L6 ANSWER 44 OF 88 MEDLINE on STN
AU Fraser W D
TI Paget's disease of bone.
SO Current opinion in rheumatology, (1997 Jul) 9 (4) 347-54. Ref: 68
Journal code: 9000851. ISSN: 1040-8711.

L6 ANSWER 45 OF 88 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AU Rosales, F. J.; Ross, A. C.
TI Plasma retinol-binding protein (RBP) and transthyretin (TTR):
Markers of inflammation-induced hypoproteinemia.
SO FASEB Journal, (1997) Vol. 11, No. 3, pp. A141.
Meeting Info.: Annual Meeting of the Professional Research Scientists on
Experimental Biology 97. New Orleans, Louisiana, USA. April 6-9, 1997.
CODEN: FAJOEC. ISSN: 0892-6638.

L6 ANSWER 46 OF 88 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
AU NORES J E R; ANDERSON J; BUTCHER R N; LIBEAU G; MCCULLOUGH K C (Reprint)
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SO JOURNAL OF GENERAL VIROLOGY, (NOV 1995) Vol. 76, Part 11, pp. 2779-2791.
ISSN: 0022-1317.

L6 ANSWER 47 OF 88 MEDLINE on STN DUPLICATE 12
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SO Journal of leukocyte biology, (1995 May) 57 (5) 726-30. Ref: 35
Journal code: 8405628. ISSN: 0741-5400.

L6 ANSWER 48 OF 88 MEDLINE on STN DUPLICATE 13
AU Hara T; Suzuki Y; Semba T; Hatanaka M; Matsumoto M; Seya T
TI High expression of membrane cofactor protein of complement (CD46) in human
leukaemia cell lines: implication of an alternatively spliced form
containing the STA domain in CD46 up-regulation.
SO Scandinavian journal of immunology, (1995 Dec) 42 (6) 581-90.
Journal code: 0323767. ISSN: 0300-9475.

L6 ANSWER 49 OF 88 MEDLINE on STN
AU Del Prete G; Maggi E; Pizzolo G; Romagnani S
TI CD30, Th2 cytokines and HIV infection: a complex and fascinating link.
SO Immunology today, (1995 Feb) 16 (2) 76-80. Ref: 40
Journal code: 8008346. ISSN: 0167-5699.

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L6 ANSWER 51 OF 88 MEDLINE on STN
AU Brown D W; Ramsay M E; Richards A F; Miller E
TI Salivary diagnosis of measles: a study of notified cases in the United
Kingdom, 1991-3.
SO BMJ (Clinical research ed.), (1994 Apr 16) 308 (6935) 1015-7.
Journal code: 8900488. ISSN: 0959-8138.
AB OBJECTIVES--To validate a method for salivary diagnosis of measles and to
assess the diagnostic accuracy of notified cases of measles. DESIGN--
Blood and **saliva** samples were collected within 90 days
of onset of symptoms from patients clinically diagnosed as having measles
and tested for specific IgM by antibody capture radioimmunoassay.
SETTING--17 districts in England and one in southern Ireland during August
1991 to February 1993. SUBJECTS--236 children and adults with measles
notified by a general practitioner. RESULTS--Specific IgM was detected in
serum in only 85 (36%) of the 236 cases. In cases associated with

outbreaks and tested within six weeks of onset, 53/57 (93%) of samples were IgM positive, thereby confirming the sensitivity of **serum** IgM detection as a **marker** of recent infection. The serological confirmation rate was lower in cases with a documented history of vaccination (13/87; 15%) than in those without (70/149; 47%) and varied with age, being lowest in patients under a year, of whom only 4/36 (11%) were confirmed. Measles specific IgM was detected in 71/77 (92%) of adequate **saliva** samples collected from patients with **serum** positive for IgM. In cases where measles was not confirmed, 6/101 had rubella specific IgM and 5/132 had human parvovirus B19 specific IgM detected in **serum**. CONCLUSIONS--The existing national surveillance system for measles, which relies on clinically diagnosed cases, lacks the precision required for effective disease control. **Saliva** is a valid alternative to **serum** for IgM detection, and salivary diagnosis could play a major role in achieving measles elimination. Rubella and parvovirus B19 seem to be responsible for a minority of incorrectly diagnosed cases of measles in the United Kingdom and other infectious causes of measles-like illness need to be sought.

L6 ANSWER 54 OF 88 MEDLINE on STN DUPLICATE 15
 AU Rutter G; Hohenberg H
 TI Label-fracture of plasma membranes isolated from **measles virus**-infected cells.
 SO journal of histochemistry and cytochemistry : official journal of the Histochemistry Society, (1993 Jul) 41 (7) 1085-91.
 Journal code: 9815334. ISSN: 0022-1554.
 AB We present a method that permits correlation of the intramembrane architecture of plasma membrane fracture faces with the distribution of specific molecules at the corresponding cytoplasmic or exoplasmic membrane surfaces. HeLa cells infected with **measles virus** were used as a model system. Large fragments of the dorsal membrane were isolated after the virus glycoproteins were tagged at the outer cell surface with immune **serum** and protein A-gold **markers**. In a second step, different virus polypeptides at the inner cell surface were also identified by a smaller gold label. Thereafter, the isolated plasma membranes were frozen and freeze-fractured. The complementary fracture faces were shadowed with heavy metals and carbon and examined in the transmission electron microscope without cleaning of remaining biological material. Thus, the micromorphology of the replicated fracture faces and the topochemistry of virus components localized at the corresponding leaflets of the plasmalemma could be seen on the same image at high resolution. Of note is that the freeze-fracture morphology of the protoplasmic face is related to the molecular composition of the cytoplasmic surface, as revealed by antibody tagging.